The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) An oxide based mixture for forming a A ceramic matrix composite comprising:

a ceramic fiber;

a sol gel comprising from about 10 wt% to about 25 60 wt% of metal oxide solids; and

alumina particles;

wherein the sol gel is mixed with said alumina particles to form a mixture including from about 40 wt% to about 70 wt% said sol gel and about 30 wt% to about 60 wt% of said mixture includes said alumina particles;

wherein the mixture of the sol gel and the aluminum particles surround the ceramic fiber.

- 2. (Currently Amended) The mixture ceramic composite of Claim 1 wherein the sol gel is selected from the group consisting of alumina sol, alumina-coated silica sol and, silica sol, and any appropriate combination thereof.
- 3. (Currently Amended) The mixture ceramic composite of Claim 2 wherein the ceramic solid comprises from about 0 wt% to about 33 60 wt% of the silica sol.

- 4. (Currently Amended) The mixture ceramic composite of Claim 3 wherein the ceramic solid comprises from about 5 wt% to about 10 40 wt% of the silica sol.
- 5. (Currently Amended) The mixture ceramic composite of Claim 1 wherein the alumina particles have a size of from between about 0.1 μ m to about 1.5 μ m.
- 6. (Currently Amended) The mixture ceramic composite of Claim 1 wherein said mixture further comprises a filler material.
- 7. (Currently Amended) The mixture ceramic composite of Claim 6 wherein the filler material is a mullite.
 - 8. 22. (Cancelled)
- 23. (Currently Amended) The mixture ceramic composite of Claim 1, wherein said sol gel includes a metal exide solids content of about 20 weight percent.
 - 24. (Cancelled)
- 25. (New) The ceramic composite of Claim 2, wherein the solids of the alumina sol consists of about 10 wt% to about 25wt%.

- 26. (New) The ceramic composite of Claim 1, wherein said ceramic fiber is woven into a fabric.
- 27. (New) The ceramic composite of Claim 1, wherein said ceramic fiber is continuous.
- 28. (New) The ceramic composite of Claim 26, wherein the fabric is formed of cut ceramic fibers.

29. (New) A ceramic composite comprising:

a plurality of ceramic fibers;

an alumina sol having a solids content of about 10 wt% to about 25 wt% consisting of alumina oxide; and

alumina particles;

wherein the sol is mixed with said alumina particles to form a mixture consisting of about 40 wt% to about 70 wt% of said sol and about 30 wt% to about 60 wt% of said alumina particles;

wherein the mixture is infiltrated into said plurality of ceramic fibers to form the ceramic composite.

- 30. (New) The ceramic composite of claim 29, wherein said plurality of ceramic fibers are sintered before the mixture is infiltrated into the ceramic fiber.
- 31. (New) The ceramic composite of claims 29, wherein said plurality of ceramic fibers are continuous.
- 32. (New) The ceramic composite of claim 29, wherein said plurality of ceramic fibers are cut.